

Dr. James Campbell

ARLECDON and FRIZINGTON
URBAN DISTRICT.

EIGHTEENTH
Annual REPORT

OF
JAMES I. LACE,

Medical Officer of Health,

FOR
1901.

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THIRLMERE HOUSE,

FRIZINGTON, via Carnforth,

January 28th, 1902.

MR. CHAIRMAN AND GENTLEMEN,

I beg to submit my Annual Report for 1901, which is the Eighteenth I have prepared for the Urban District of Arlecdon and Frizington. Hitherto the statistical information and appended Tables in my Reports were based on an assumed population, as the three Townships which constitute the Urban District, not being civil Parishes, their separate populations were not published in the census volumes. We are now in possession of the figures supplied by the census in April last, which enables us to deal more accurately with the vital Statistics of the District and the respective Wards.

The District has an area of 5,556·340 acres and 1,166 houses, of which 1,066 are inhabited, viz.:—326 in Arlecdon and Whillimoor, and 740 in Frizington. The official enumeration of the population made on the First of April of the present year, (1901) was 5,341, which shows a decrease of 356 in the number of inhabitants in the district, between the census of 1891 and the recent census. Arlecdon Ward has a population of 1,632, and Frizington 3,709.

During the twelve months ending December 31st, 1901, there were registered in Arlecdon and Frizington, 176 births—85 boys and 91 girls—59 in Arlecdon and 117 in Frizington. The birth-rate was 32·95 per 1,000 of the population in the whole district—36·15 in Arlecdon, and 31·54 in Frizington.

The number of deaths recorded in the district during the year 1901 amounted to 66—41 males and 25 females—21 being registered in Arlecdon and 45 in Frizington.

It is highly satisfactory to note that the total number of deaths during the year was two less than in any year since the district possessed the advantages of Local Self-Government in July, 1882, and 14 less than the average during this period. The rate of Mortality for the year was equivalent to 12·35 per 1,000 living, being 2 per 1,000 lower than the average for the last decade.

The death-rates in the district for the Quarterly periods of the year were :—

1st Quarter	...	...	14·22	...	19 deaths.
2nd „	...	...	9·73	...	13 „
3rd „	...	...	10·48	...	14 „
4th „	...	...	14·97	...	20 „

The deaths among children under one year numbered 22, being the same as that of the previous year. Measured by the proportion of deaths to births registered, the Infant

Mortality in the district was equal to 125 per 1,000. The death-rate of children under 5 years of age to 100 deaths at all ages for 1901 was 33·33.

The Senile deaths or deaths of persons aged 65 and upwards numbered 14, which represents a percentage of 21·21.

The number of cases of Notifiable disease last year, was 10, eight of which were Erysipelas. The Erysipelatous cases were all of the simple cutaneous variety, and were confined to Frizington. One case of Scarlet Fever of a mild type was notified from Arlecdon in the month of January. The source of infection was not traceable. Precautionary measures were taken, and no extension of the disease occurred. A fatal case of Puerperal Fever took place in Frizington, in the month of February.

Whooping Cough, one of the most fatal and unmanageable of infectious diseases, chiefly affecting children, was very prevalent during the greater part of the year, and four deaths are ascribed to it. The number of deaths from Phthisis was seven, as compared with fifteen the preceding year, and gives a mortality-rate of 1·31. Cancer or Malignant disease caused two deaths, being the same in number as that of the previous year.

The usual systematic inspection of the district was made in company with your Sanitary Inspector, whose Annual Report gives the particulars of the work done by him.

It is not necessary for me to recapitulate in detail, what I have said in many of my previous Annual Reports, with

respect to our Water Supply and Sewage. The water is beautifully soft, pure and abundant, and every care is being exercised to prevent contamination or pollution at its source. The Water Carriage System is the plan adopted for Sewage removal, and it is disposed of by means of Broad Irrigation. An additional ten acres of land has been added to that already acquired at the village of Rowrah, for the purpose of sewage irrigation. This with care will insure the proper purification of the sewer water before it is permitted to flow into the stream in this portion of the district.

One hundred and twenty yards of main sewers have been executed, forty water services have been renewed, and other matters of Sanitary detail appear in Mr. Ashbridge's Report.

In my Annual Report of 1895, I pointed out that the health of the inhabitants of the district would be improved by rendering the soil drier, and I would now like to see an approved scheme of ground-drainage carried out.

The official copy from the Home Office of The Factory and Workshop Act, 1901, which came in force on January 1st, 1902, points out the additional duties of Local Authorities and imposes extra work on the Medical Officer of Health. This Officer will in future be required to furnish an Annual Report on the administration of the Act in his district, and transmit a copy of the same to the Secretary of State.

Two samples of Milk, two of Beer, two of Butter, one of Rum, one of Pepper, one of Tapioca, and one of Coffee,

were taken by the County Police and submitted to the County Analyst, and all were favourably reported on. In future, it is to be hoped that the Police will not omit Golden Syrup and Jam from the List of Articles submitted to the Public Analyst.

I am, Gentlemen,

Your obedient Servant,

J. I. LACE,

Medical Officer of Health.

Table I.—Births.

The total number of Births, Male and Female, Legitimate and Illegitimate, and Birth-rate per 1,000 of the population of the District, and the percentage of Illegitimate to the total Births.

DISTRICTS.	Estimated Popu- lation to the Middle of 1901.	BIRTHS.						Rate per 1000 Population.	Percentage of Illegitimate.
		Legitimate.		Illegitimate		1901.			
		Male.	Female.	Male.	Female.	Total.			
						1901.	1901.		
Arlecdon	(Census) 1,632	2 } 23	33	...	1	2 57	36·15	·61	
Frizington	3,709	59	54	1	3	117	31·54	1·07	
The Entire District ..	5,341	84	87	1	4	176	32·95	·93	

Table II.—Deaths in the District from January 1st to December 31st, 1901.

Deaths under 1 year of age	...	...	22	30
„ of 1 „	and under 5 years	8	under 5 years.	
„ „ 5 „	„ 15 „	1		
„ „ 15 „	„ 25 „	4	36	
„ „ 25 „	„ 65 „	17	over 5 years.	
„ „ 65 „	and upwards	14		
Total		...	66	

Table III.—Deaths from January 1st to December 31st, 1901.

Extent, Population, and Mortality.	Township of Arlecdon and Whillimoor.	Township of Frizington.	The Entire District.
Area in Acres	{ 1,906·845 1,569·604	2,079·891	5,556·340
Population, Census 1901 ...	1,632	3,709	5,341
„ estimated to the middle of 1901 ...	1,632	3,709	5,341
Deaths from the nine chief zymotic diseases	1	3	4
Deaths from other causes ...	20	42	62
Total deaths for the year ...	21	45	66
Death-rate from the nine chief zymotic diseases per 1,000	·61	·80	·74
Death-rate from all other causes per 1,000	12·25	11·32	11·60
General Death-rate per 1,000 ...	12·86	12·13	12·35

Table IV.—Deaths from the Nine Chief Zymotic Diseases.

Smallpox	0	} = 4
Scarlatina	0	
Diphtheria	0	
Membranous Croup	0	
Typhus Fever... ..	0	
Enteric or Typhoid Fever	0	
Measles	0	
Whooping Cough	4	}
Diarrhœa	0	

Table V.—Summary.

	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901
Population	5,050	5,050	5,050	5,050	5,050	5,600	6,000	5,639	5,400	5,200	5,650	5,750	5,750	5,900	5,900	5,950	5,860	5,341
Total Births	234	208	194	172	174	192	235	204	213	206	207	195	161	171	144	184	170	176
Annual Birth-rate per 1,000 population	46.33	41.18	38.41	34.05	34.45	34.28	39.16	36.17	39.44	39.61	36.63	33.91	28.00	29.00	24.40	30.92	29.01	32.95
Total Deaths	96	82	80	82	78	95	112	77	75	91	68	90	72	88	83	82	(103) (102)	66
Annual Mortality per 1,000 population	19.00	16.23	15.84	16.23	15.44	16.29	18.66	13.65	13.88	17.50	12.03	15.65	12.62	14.91	14.06	13.78	17.40	12.35

TO THE CHAIRMAN AND MEMBERS OF THE
ARLECDON AND FRIZINGTON URBAN DISTRICT COUNCIL.

Gentlemen,

I have pleasure to lay before you the Sanitary Inspector's Eighteenth Annual Report which gives you a summary of the Sanitary work done under your Authority for the year ending 1901.

During the year 1901, important improvements to the Sewerage Works at Rowrah, in the Arlecdon Ward, have been carried out. 120 yards of new 6" diam. Sewer Mains have been laid into the fields at CollierGate, Rowrah, which will enable us to utilise about ten acres more of very suitable land if necessary for Sewage disposal, which is disposed of by the Broad Irrigation System, and to which the whole of the Sewerage matter from Rowrah may be connected.

There is still a large number of the ancient Ball Valve Cisterns in existence, connected with the W.C. fittings, which give considerable trouble to both Owners and Officials, through the almost continuous waste of water. Although these are being slowly replaced by the more modern Cistern, it is necessary for this Council to take more compulsory measures and have the whole of the ancient Cisterns abolished.

Table VI.—*Showing Particulars of Work done under the Sanitary Authority for the year 1901.*

Inspections made	...	...	...	...	...	...	1,598
Nuisances observed...	...	...	...	...	...	...	412
„ reported	...	...	...	...	...	...	113
„ abated by notice	...	...	...	...	...	...	113
„ abated by verbal notice	...	...	...	...	...	...	299

New Sewers laid	...	...	...	...	...	yards	120
Water Closets built	...	...	...	...	...		1
Privies converted into W.C.'s	...	...	...	...	...		4
Alteration to Houses and W.C. connected				...	...		2
Houses Fumigated	...	...	...	...	...		2
Water Services Renewed		...	...	...	...		40
New Water Connections made	...	...	...	...	...		4

I am, Gentlemen,

Your obedient Servant,

GEORGE ASHBRIDGE,

Sanitary Inspector.

TABLE VII.—FOR WHOLE DISTRICT.

Year.	Population estimated to Middle of each Year.	Births.		Deaths under One Year of age.		Deaths at all ages. Total.		Deaths in Public Institutions.	Deaths of Non-residents registered in District	Deaths of Residents registered beyond District	Deaths at all ages. Nett.	
		No.	Rate *	No.	Rate per 1,000 Births regist'd.	No.	Rate *				No.	Rate *
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
Census												
1891	5,697	204	36.17	16	78	77	13.65	..	..	..	77	13.65
1892	5,400	213	39.41	27	126	75	13.88	..	..	..	75	13.88
1893	5,200	206	39.61	39	189	91	17.50	..	..	..	91	17.50
1894	5,650	207	36.63	25	120	68	12.03	..	..	..	68	12.03
1895	5,750	195	33.91	18	92	90	15.65	..	..	..	90	15.65
1896	5,750	161	28.00	23	142	72	12.52	..	..	..	72	12.52
1897	5,900	171	29.00	24	140	88	14.91	..	..	..	88	14.91
1898	5,930	144	24.40	18	125	83	14.06	..	..	..	83	14.06
1899	5,950	184	30.92	24	130	82	13.78	..	..	..	82	13.78
1900	5,860	170	29.01	22	129	103	17.57	..	3	2	102	17.40
Averages for years 1891-1900	5,705.70	185.50	32.706	23.60	127.10	82.80	14.555	..	..	..	82.80	14.533
1901	5,341	176	32.95	22	125	66	12.35	..	..	..	66	12.35

* Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

NOTE.—The deaths to be included in Column 7 of this table are the whole of those registered during the year as having actually occurred within the district or division. The deaths to be included in Column 12 are the number in Column 7, corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

By the term "Non residents" is meant persons brought into the district on account of sickness or infirmity, and dying in public institutions there; and by the term "Residents" is meant persons who have been taken out of the district on account of sickness or infirmity, and have died in public institutions elsewhere.

The "Public Institutions" to be taken into account for the purposes of these Tables are those into which persons are habitually received on account of sickness or infirmity, such as hospitals, workhouses and lunatic asylums.

Institutions outside the district receiving sick and infirm persons from the district:—Whitehaven Infirmary, Whitehaven Workhouse, Garlands Lunatic Asylum, Galemire Fever Hospital.

Area of District in acres (exclusive of area covered by water)	..	5,556.340
Total Population, at all ages, at Census of 1901	..	5,341
Number of Inhabited Houses	..	1,066
Average Number of Persons per house	..	5

TABLE VIII.

Year.	Population estimated to middle of each year.	Births registered	Deaths at all ages	Deaths under One Year.
	(Census)			
1891 ...	5,697	204	77	16
1892 ...	5,400	213	75	27
1893 ...	5,200	206	91	39
1894 ...	5,650	207	68	25
1895 ...	5,750	195	90	18
1896 ...	5,750	161	72	23
1897 ...	5,900	171	88	24
1898 ...	5,900	144	83	18
1899 ...	5,950	184	82	24
1900 ...	5,860	170	102	22
Averages of Years 1891 to 1900	5,705.70	185.50	82.80	23.60
1901 ...	5,341	176	66	22

TABLE IX.—CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR, 1901.

Notifiable Disease.	Cases Notified in Whole District.					
	At all Ages.	Ages.				
		1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and Upwards
Smallpox ...	...	...	...	...	...	...
Cholera ...	...	...	...	...	...	...
Diphtheria ...	...	...	...	...	...	...
Membranous Croup ...	...	...	...	...	...	...
Erysipelas ...	8	...	2	1	5	...
Scarlet Fever ...	1	1	...	...	...	...
Typhus Fever ...	...	...	...	...	...	...
Enteric Fever ...	...	...	...	...	...	...
Relapsing Fever ...	...	...	...	...	...	...
Continued Fever ...	...	...	...	...	...	...
Puerperal Fever ...	1	...	...	...	1	...
Plague ...	...	...	...	...	...	...
Total ...	10	1	2	1	6	

The Notification of Infectious Disease is compulsory in the District, and has been since 19th May, 1890, Galemire Joint Fever Hospital, situated in the Whitehaven Union Rural Council's District, near Cleator Moor.

TABLE X.—CAUSES OF, AND AGES AT, DEATH
DURING YEAR 1901.

Causes of Death.	Deaths in whole District at subjoined Ages.							Deaths in Public Institu- tions.
	All Ages.	Under 1.	1 and under 5.	5 and under 15	15 and under 25	25 and under 65	65 and up- wards.	
Smallpox .. ..	..	..	..	..	...	...	..
Measles .. ..	..	..	..	..	...	..	..
Scarlet Fever .. ..	..	..	..	..	...	..	..
Whooping Cough ..	4	3	1	...	...	...	..
Diphtheria and Mem- branous Croup ..	..	..	..	..	...	...	..
Croup .. ..	..	..	..	...	...	..	..
(Typhus .. ..	..	..	..	..	...	...	..
Fever { Enteric .. ..	..	..	..	..	...	...	..
{ Other continued ..	..	..	..	...	...	..	..
Epidemic Influenza ..	..	..	..	...	...	..	..
Cholera .. ..	..	..	..	..	...	...	..
Plague .. ..	..	..	..	..	...	..	..
Diarrhœa .. ..	..	..	..	...	...	...	..
Enteritis	1	1	..	..	...	...	..
Puerperal Fever ..	1	..	..	..	...	1	..	
Erysipelas .. ..	..	..	..	..	...	...	..
Other Septic Diseases ..	..	..	..	..	...	...	..
Phthisis	7	..	1	..	1	5	..	
Other Tubercular Diseases	3	..	2	..	..	1	..	
Cancer, Malignant Disease	2	..	..	..	..	1	1	
Bronchitis	8	4	..	...	..	2	2	
Pneumonia	6	2	1	..	..	2	1	
Pleurisy .. ..	..	..	..	..	..	..	..
Other Diseases of Res- piratory Organs ..	..	..	..	..	..	...	..
Alcoholism .. ..	..	..	..	..	..	...	..
Cirrhosis of Liver }	..	..	..	..	..	...	..
Venereal Diseases ..	..	..	..	..	..	...	..
Premature Birth... ..	3	3	..	..	..	..	..
Diseases and Accidents of parturition ..	..	..	..	..	..	..	..
Heart Diseases	5	..	..	1	..	4	..	
Accidents	4	..	2	..	..	...	2	
Suicides .. ..	..	..	..	..	..	...	..
All other causes ..	22	9	1	..	3	1	8	
All causes	66	22	8	1	4	17	14	

